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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (CURRENTLY AMENDED) An identification photo system that

obtains image data for an identification photo of a person from image data of

the person, said identification photo system comprising:

an automatic correcting device that automatically corrects the image

data of the person,

wherein said automatic correcting device detects a background area in

said image data, abstracts a person area based on the background area,

compares a size of the person area in said image data with a predetermined

size, and changes the size of an image of the person-based on the size of the

person area so that the size of the person area is the predetermined size.

2. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device corrects at least

one of density, color balance, luminance and saturation of the image of the

person.

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3. (ORIGINAL) The identification photo system as defined in claim 1,

wherein said automatic correcting device comprises:

a skin pigmentation area abstracting device that abstracts a skin

pigmentation area from the image;

a skin pigmentation correction value calculating device that calculates

skin pigmentation correction values according to colors of the skin

pigmentation area abstracted by said skin pigmentation area abstracting device

and a predetermined skin pigmentation correction target value; and

a color correcting device that corrects the colors of the skin pigmentation

area according to the skin pigmentation correction values calculated by said

skin pigmentation correction value calculating device.

4. (ORIGINAL) The identification photo system as defined in claim 3,

wherein said color correcting device corrects colors of all the image according to

the skin pigmentation correction values calculated by said skin pigmentation

correction value calculating device.

5. (ORIGINAL) The identification photo system as defined in claim 1,

wherein said automatic correcting device comprises:

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an area separating device that separates the image into a person area

and a background area; and

a background changing device that changes colors of the background

area to a predetermined color.

6. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 5, wherein said automatic correcting device further comprises:

an abstracting device that abstracts a print area required for the

identification photo from the image according to the size of the image.

7. (ORIGINAL) The identification photo system as defined in claim 1,

wherein said automatic correcting device comprises:

a cloth area abstracting device that abstracts a cloth area from the

image; and

a cloth changing device that changes image data of the cloth area to

image data of predetermined cloth.

8. (ORIGINAL) The identification photo system as defined in claim 1,

further comprising a printer that prints the identification photo from the image

data for the identification photo.

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9. (CURRENTLY AMENDED) An image processing method in which

image data for an identification photo of a person is obtained from image data

of the person, said image processing method comprising the steps of:

abstracting a skin pigmentation area from an image of the person;

calculating skin pigmentation correction values according to colors of the

abstracted skin pigmentation area and a predetermined skin pigmentation

correction target value;

correcting the colors of the skin pigmentation area according to the

calculated skin pigmentation correction values;

detecting a background area in said image data;

abstracting a person area in said image data based on the background

area;

comparing a size of the person area in said image data with a

predetermined size; and

changing the size of the image based on the size of the person area so

that the size of the person area is the predetermined size.

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10. (CURRENTLY AMENDED) An image processing system for

generating identification image data from an original image data of a person,

comprising:

an abstracting device configured to determine a person area of the

original image data based on a background area;

an image size correcting device configured to change a size of the person

area based on to a predetermined image person area size based on the size of

the person area abstracted by the abstracting device; and

an image data generating device configured to generate the identification

image data based on the changed sized person area such that the identification

image data includes a cut guidance area within a print area,

wherein the cut guidance area is smaller than the print area.

11. (PREVIOUSLY PRESENTED) The system of claim 10, wherein the

abstracting device data is configured to detect a facial area of the person in the

original image data based on the person area.

12. (PREVIOUSLY PRESENTED) The system of claim 10, further

comprising:

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a color correcting device configured to correct at least one of density,

color balance, luminance and saturation of an image of the person.

13. (PREVIOUSLY PRESENTED) The system of claim 12, wherein the

color correcting device comprises:

a skin pigmentation area abstracting device configured to abstract a skin

pigmentation area from the original image data;

a skin pigmentation correction value calculating device configured to

calculate skin pigmentation correction values according to colors of the skin

pigmentation area abstracted by the skin pigmentation area abstracting device

and a predetermined skin pigmentation correction target value; and

a skin pigmentation correcting device configured to correct the colors of

the skin pigmentation area according to the skin pigmentation correction

values calculated by said skin pigmentation correction value calculating device.

14. (PREVIOUSLY PRESENTED) The system of claim 10, wherein the

image data generating device comprises:

a head position detecting device configured to detect a head position of

the person in the original image data; and

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a cut guidance generating device configured to generate a cut guidance

in the print area based on the head position detected by the a head position

detecting device.

15. (PREVIOUSLY PRESENTED) The system of claim 14, wherein the

cut guidance generating device is configured to outline the cut guidance area

by at least one of a solid line, a broken line, marks at corners, and configured

to differentiate colors between the cut guidance area and a remainder of the

printer area.

16. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device is configured to

determine the person area as being an area of the image data other than the

background area.

17. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device is configured to

compare a plurality of areas of the image data with a reference background

area and configured to determine each of the plurality of areas to be a part of

the background area based on the comparison.

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18. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 17, wherein the reference background area includes at least

one corner area of the image data.

19. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 9, wherein said step of abstracting the person area the image

data comprises determining the person area as being an area of the image data

other than the background area.

20. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 9, wherein said step of detecting the background area

comprises:

comparing a plurality of areas of the image data with a reference

background area; and

determining each of the plurality of areas to be a part of the background

area based on the comparison.

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21. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 20, wherein the reference background area includes at least

one corner area of the image data.

22. (PREVIOUSLY PRESENTED) The system of claim 10, wherein said

abstracting device is to determine the person area as being an area of the

image data other than the background area.

23. (PREVIOUSLY PRESENTED) The system of claim 10, wherein said

abstracting device is configured to determine the background area based a

comparison of a plurality of areas of the image data with a reference

background area.

24. (PREVIOUSLY PRESENTED) The system of claim 10, wherein the

reference background area includes at least one corner area of the image data.

25. (CURRENTLY AMENDED) A method for processing an image,

comprising:

determining a background area of an image;

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determining a person area of the image as an area of the image other

than the background area of the image; and

sizing the image such that based on a size of the person area of the

image such that the size of the person area is a predetermined person area size.

26. (PREVIOUSLY PRESENTED) The method of claim 25, wherein the

step of determining the background area of the image comprises:

separating the image into a plurality of areas; and

determining whether or not the each area of the plurality of areas

belongs in the background area based on any one or more of

a comparison of the each area with a reference background area,

a size of the each area, or

an average coordinate of the pixels of the each area.

27. (PREVIOUSLY PRESENTED) The method of claim 26, wherein the

step of separating the image into the plurality of area comprises:

comparing properties of adjoining pixels of the image; and

determining that the adjoining pixels belong in the same area if the

compared properties of the adjoining pixels are less than predetermined

thresholds for each property compared.

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28. (PREVIOUSLY PRESENTED) The method of claim 27, wherein the

properties of the adjoining pixels compared include:

luminance and chromaticity values; or

red (R), green (G) and blue (B) values.

29. (PREVIOUSLY PRESENTED) The method of claim 26, wherein the

reference background area includes at least one corner of the image and

wherein the step of determining whether or not the each area of the plurality of

areas belongs in the background area based on the comparison of the each

area with the reference background area includes determining that the each

area belongs in the background area if

a difference between an average luminance value of the pixels of the each

area and an average luminance value of the reference background area is

within a predetermined luminance difference threshold and a difference

between an average chromaticity value of the pixels of the each area and an

average chromaticity value of the reference background area is within a

predetermined chromaticity difference threshold, or

a difference between an average red (R) value of the pixels of the each

area and an average R value of the reference background area is within a

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predetermined R difference threshold, a difference between an average

green (G) value of the pixels of the each area and an average G value of the

reference background area is within a predetermined G difference threshold

and a difference between an average blue (B) value of the pixels of the each

area and an average B value of the reference background area is within a

predetermined B difference threshold.

30. (PREVIOUSLY PRESENTED) The method of claim 26, wherein the

step of determining whether or not the each area of the plurality of areas

belongs in the background area based on the size of the each area includes

determining that the each area belongs in the background area if the size of the

each is greater than a predetermined maximum area or less than a

predetermined minimum area.

31. (PREVIOUSLY PRESENTED) The method of claim 26, wherein the

step of determining whether or not the each area of the plurality of areas

belongs in the background area based on the average coordinate of the pixels of

the each area includes determining that the each area belongs in the

background area if the average coordinate of the pixels of the each area is

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outside of a predetermined oval or circle with the center of the oval or the circle

at the center of the image.

32. (PREVIOUSLY PRESENTED) The method of claim 25, further

comprising abstracting a facial area based on the person area.

33. (PREVIOUSLY PRESENTED) The method of claim 32, wherein the

step of abstracting the facial area based on the person area comprises

determining that an area of the person area is the facial area when a color of

the of the area is determined to be a skin pigmentation color.

34. (PREVIOUSLY PRESENTED) The method of claim 33, further

comprising correcting the facial area to a target skin pigmentation color.

35. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 1, wherein said automatic correcting device is configured to

separate the image data into an area such that two adjoining pixels are in the

same area if a difference in data between the two adjoining pixels is smaller

than a predetermined threshold, calculate a characteristic value of the area,

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detect the background area based on the characteristic value of the area, and

abstract the person area in the image data based on the background area.

36. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 35, wherein said automatic correcting device is configured to

detect the area as the background area if a difference in the characteristic

value between a predetermined reference background area and an area

adjoining the predetermined reference background area is smaller than a

predetermined threshold.

37. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 36, wherein the predetermined reference background area

includes at least one corner area of the image data or an area out of an oval

that is smaller than the image with its center at a center of the image data.

38. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 35, wherein said automatic correcting device is configured to

detect the area as the background area if a number of pixels in the area is

larger than a first predetermined threshold or smaller than a second

predetermined threshold.

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39. (PREVIOUSLY PRESENTED) The identification photo system as

defined in claim 35, wherein said automatic correcting device is configured to

detect the area as the background area if an average coordinate of the pixels in

the area is out of a circle or an oval with its center at a center of the image data.

40. (CURRENTLY AMENDED) An image processing method in which

image data for an identification photo of a person is obtained from image data

of the person, the image processing method comprising the steps of:

dividing the image data into an area such that two adjoining pixels are in

the same area if a difference in data between the two adjoining pixels is smaller

than a predetermined threshold;

calculating a characteristic value of the area;

detecting a background area based on the characteristic value of the

area; and

abstracting a person area in the image data based on the background

area; and

sizing an image based on a size of the person area of the image data such

that the size of the person area in the image is a predetermined person area

<u>size</u>.

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41. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 40, wherein the step of detecting the background area

includes:

determining that an area adjoining a predetermined reference

background area is the background area if a difference in the characteristic

value between the predetermined reference background area and the area

adjoining the predetermined reference background area is smaller than a

predetermined threshold.

42. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 41, wherein the predetermined reference background area

includes at least one corner area of the image data or an area out of an oval

that is smaller than the image with its center at a center of the image data.

43. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 40, wherein the step of detecting the background area

includes:

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determining that the area is the background area if a number of pixels in

the area is larger than a first predetermined threshold or smaller than a second

predetermined threshold.

44. (PREVIOUSLY PRESENTED) The image processing method as

defined in claim 40, wherein the step of detecting the background area

includes:

determining that the area is the background area if an average

coordinate of the pixels in the area is out of a circle or an oval with its center at

a center of the image data.

45. (NEW) The system as defined in claim 6, wherein the area

separating device, the background changing device, and the abstracting device

are all physically integrated into a single camera.

46. (NEW) The system as defined in claim 10, wherein the abstracting

device, the image size correcting device, and the image data generating device

are all physically integrated into a single camera.

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47. (NEW) The system as defined in claim 1, the system further

comprising:

a selection device configured to allow a user to select the predetermined

size from a plurality of predetermined person area sizes,

wherein in the automatic correcting device changes the image of the

person so that the size of the person area is the selected predetermined size.

48. (NEW) The method of claim 9, further comprising:

allowing a user to select the predetermined size from a plurality of

predetermined person area sizes prior to changing the size of the image,

wherein in the step of changing the size of the image comprises changing

the size of the image based on the selected predetermined size.

49. (NEW) The system as defined in claim 10, the system further

comprising:

a selection device configured to allow a user to select the predetermined

person area size from a plurality of predetermined person area sizes,

wherein in the image size correcting device changes the image of the

person so that the size of the person area is the selected predetermined person

area size.

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50. (NEW) The method of claim 25, further comprising:

allowing a user to select the predetermined person area size from a plurality of predetermined person area sizes prior to sizing the image,

wherein in the step of sizing the image comprises sizing the image based on the selected predetermined person area size.

51. (NEW) The method of claim 40, further comprising:

allowing a user to select the predetermined person area size from a plurality of predetermined person area sizes prior to sizing the image,

wherein in the step of sizing the image comprises sizing the image based on the selected predetermined person area size.